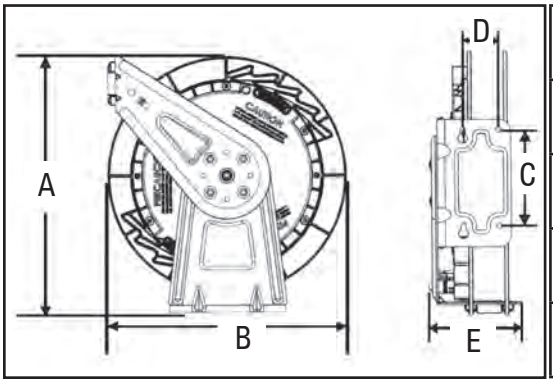
Operating Instructions

Series RT Spring Driven Hose Reels

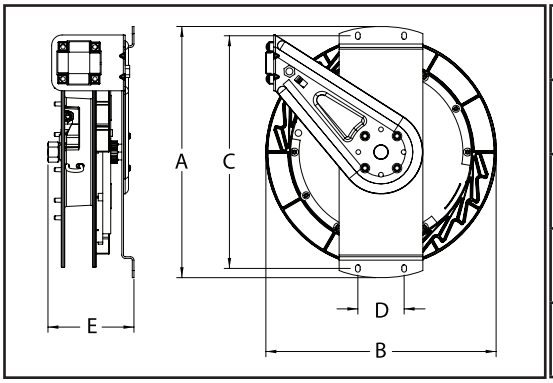
Medium and High Pressure Model Numbers:

RT602-OMP	RT635-OMP	RT602-OHP	RT635-OHP
RT603-OMP	RT650-OMP	RT603-OHP	RT650-OHP
RT605-OMP	RT825-OMP	RT605-OHP	RT650-OMPSM
RT802-OMP	RT835-OMP	RT425-OHP	
RT803-OMP	RT402-OHP	RT435-OHP	
RT625-OMP	RT403-OHP	RT625-OHP	

Dimensions



A	17 7/8”
B	16 1/2”
C	6”
D	2 1/4”
E	See page 6



A	18”
B	16 7/16”
C	16 11/16”
D	3 5/16”
E	See page 7

SAFETY

Personal injury and/or equipment damage may result if proper safety precautions are not observed.

- Ensure that reel is properly installed before connecting input and output hoses.
- Bleed fluid/gas pressure from system before servicing reel.
- Before connecting reel to supply line, ensure that pressure does not exceed maximum working pressure rating of reel.
- Remember, even low pressure is very dangerous and can cause personal injury or death.
- Be aware of machinery and personnel in work area.
- If a leak occurs in the hose or reel, remove system pressure immediately.
- A high tension spring assembly is contained within the reel. Exercise extreme caution.
- Pull hose from reel by grasping the hose itself, not the control valve.
- Ensure that reel, hose, and equipment being serviced are properly grounded. Use an ohmmeter to check ground continuity.
- If reel ceases to unwind or rewind, remove system pressure immediately. Do not pull or jerk on hose!
- Treat and respect the hose reel as any other piece of machinery, observing all common safety practices.

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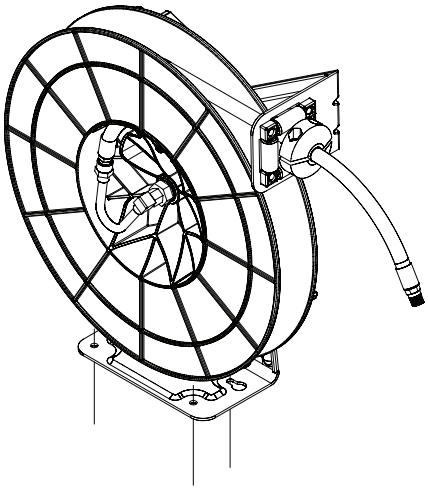


figure 1

Mounting the Hose Reel

Prior to mounting the hose reel, ensure that the supply line pressure does not exceed the maximum working pressure of the hose reel.

Do not exceed the maximum installation height of 16' unless the reel was specified differently when ordering. The maximum operating temperature is 150°F (66°C).

Unpack and inspect the reel for damage. Turn the spool by hand to check for a smooth operation.

Position the reel on the floor, wall or ceiling. Secure into place using four mounting bolts (not included). See the included mounting template for additional instructions for your specific mounting application. Depending on where the reel is placed, it may be necessary to adjust the hose bumper and guide arm to use the hose properly. See the instructions on the next page to adjust the hose bumper and reposition the guide arm.

Mounting Applications

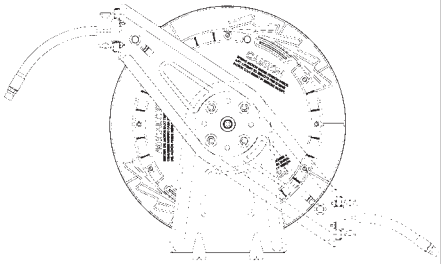


figure 2

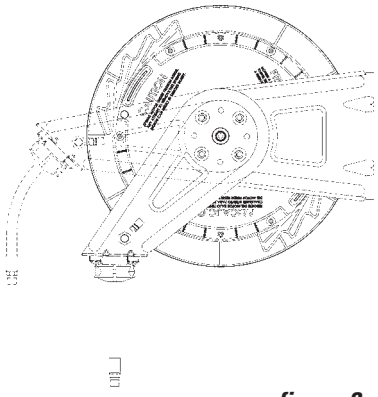


figure 3

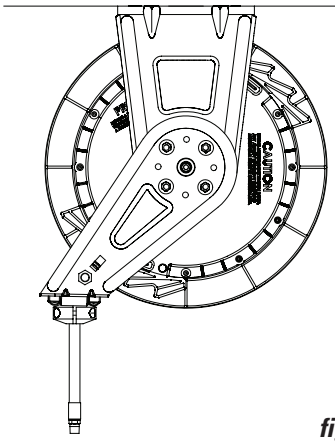


figure 4

Installing the Input Hose

Use a flexible hose connection at input. Do not use rigid plumbing. (input hose not included)

Apply pipe thread sealant to threads on standard reels.

Do not over tighten the connection. Recommended torque should not exceed 70 ft./lb.

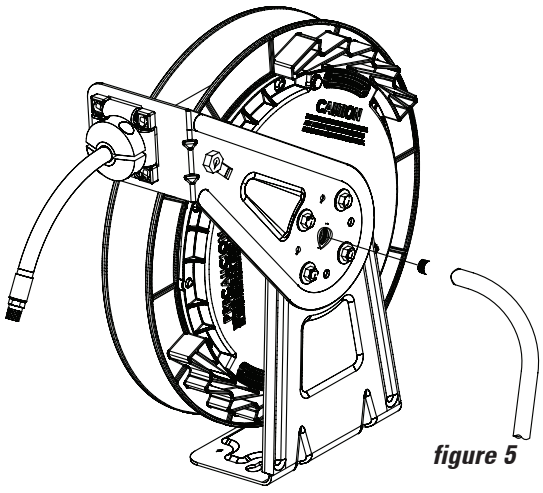


figure 5

Adjusting the Hose Bumper

Pull out the hose until the latch pawl is engaged.

The hose bumper may be adjusted by loosening the slotted screws shown in *figure 6*.

Slide the bumper to the desired position and tighten the screws BEFORE PULLING HOSE to disengage the latch pawl.

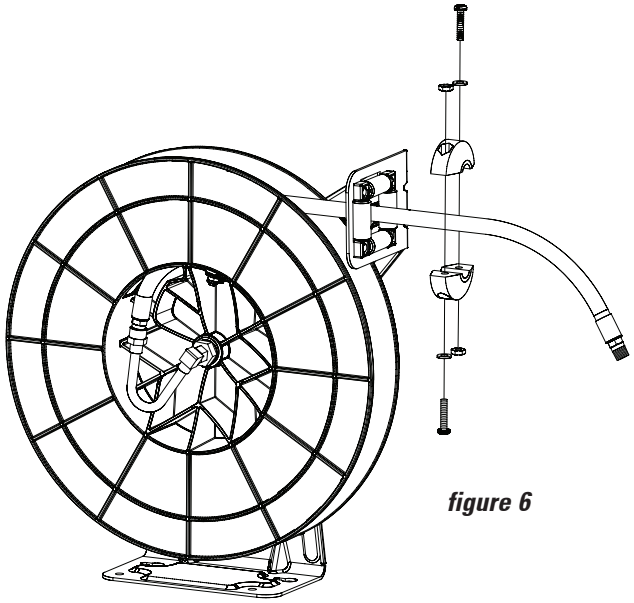


figure 6

Removing the Guide Arm

Pull out hose until the latch pawl is engaged. Remove bumper by removing the slotted screws (*figure 6*).

Disengage the latch pawl while maintaining a firm hold on spool. Turn the spool hand over hand approximately two or three revolutions in the direction of the drive spring until tension is removed.

Remove the 4 nuts holding the guide arm to base (*figure 7*).

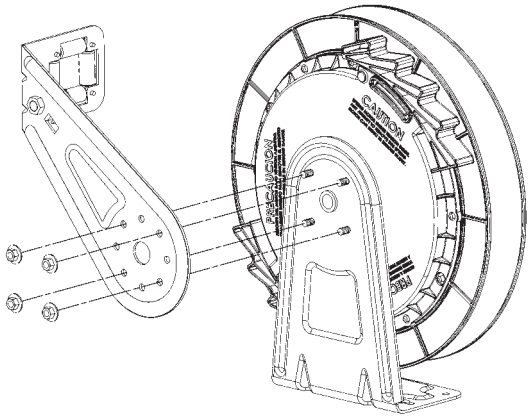


figure 7

Positioning the Guide Arm

Remove the guide arm and adjust to any of the seven positions shown in *figure 8*.

See *figures 2, 3, and 4*, for recommended Guide Arm positions for each mounting application.

Replace and tighten the 4 nuts.

Tighten the drive spring by turning the spool two or three revolutions and engage the latch pawl.

Pull the hose through the roller opening in the guide arm and replace the hose bumper (*figure 6*)

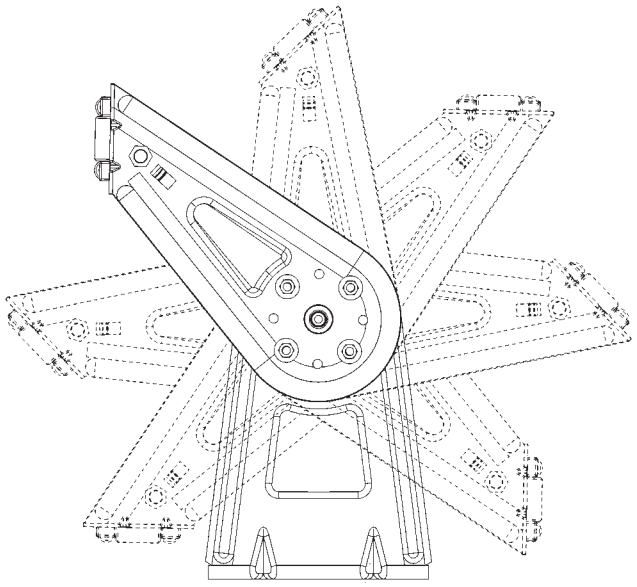


figure 8

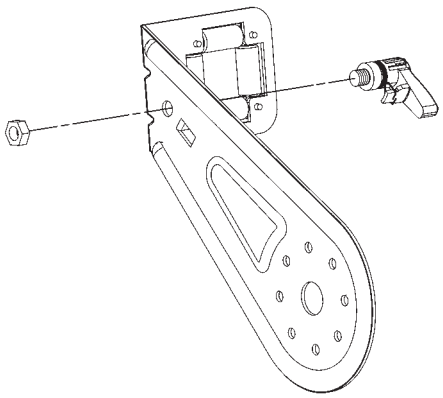


figure 9

Replacing the Latch Pawl

Remove the guide arm by following the procedure for "Removing the Guide Arm". Remove the retaining nut as shown in *figure 9.*

Replace the latch pawl assembly.

Replace and tighten the retaining nut.

Replace the guide arm and hose bumper by following the procedure for "Positioning the Guide Arm".

Replacing the Hose

To remove the hose

Pull out the hose leaving 2 to 3 feet on the spool. Engage the latch pawl. Remove the U-bolt nuts on the inside of the spool (*figure 10)*. Remove the U-bolt.

Unthread the hose at the connection to the swivel tube. Use a wrench on both fittings or the swivel may be damaged. Remove the hose.

To install the hose

Route the hose through the guide arm rollers and opening of the spool. Apply thread tape or sealant to hose threads.

Screw hose fitting into threaded fitting on swivel. Tighten connection with a wrench on both fittings. Install the U-bolt *(figure 10)*. Install hose bumper on working end of hose if required.

Disengage latch pawl and allow hose to retract.

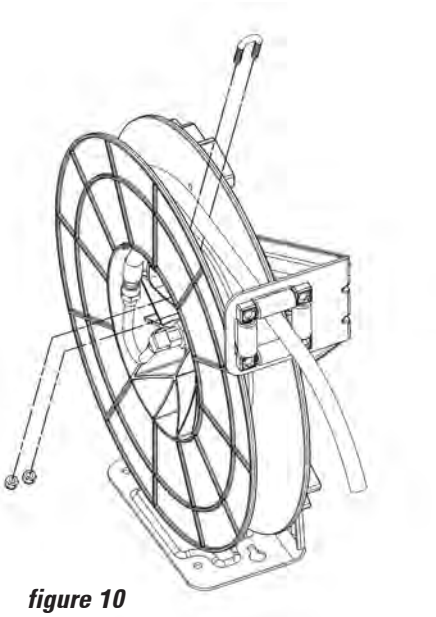


figure 10

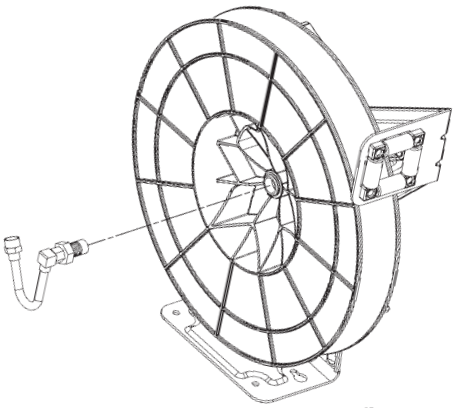


figure 11

Replacing the Swivel

Remove the hose.

See the procedure for "Replacing the Hose".

Remove swivel by unscrewing the threaded stem from the main shaft *(figure 11)*.

Replace swivel by screwing threaded stem of swivel into main shaft of reel. Replace the hose.

Replacing the Spool Assembly

Attach the reel securely to prevent it from moving. Pull out the hose just until the latch pawl is engaged. Remove the hose bumper by removing the slotted screws *(figure 6)*.

Disengage the latch pawl while maintaining a firm hold on the spool. Turn the spool hand over hand approximately two or three revolutions until the spring tension is removed.

Unscrew the swivel stem from the main shaft. Next, remove the swivel by unscrewing the swivel from the hose *(figure 11).* Remove the retaining ring and spacing washer *(figure 12).* Pull the spool away from the base. Unwind the hose from the spool, remove the u-bolt *(figure 10)*.

Install the spool assembly by inserting the shaft of the base into the hex shaped opening of the spool. Install spacing washer and retaining ring as shown *(figure 12)*. Install the swivel by screwing the threaded stem of swivel into the main shaft of reel *(figure 11).*

Install the hose by screwing the hose fitting into the threaded fitting on the swivel. Tighten connection with a wrench on both fittings. Install the u-bolt *(figure 10)*.

Pull in the hose by turning the spool by hand. When the hose is completely wound onto the spool, turn the spool in the other direction two to three revolutions. Pull the hose through the roller opening in the guide arm and replace the hose bumper *(figure 6).*

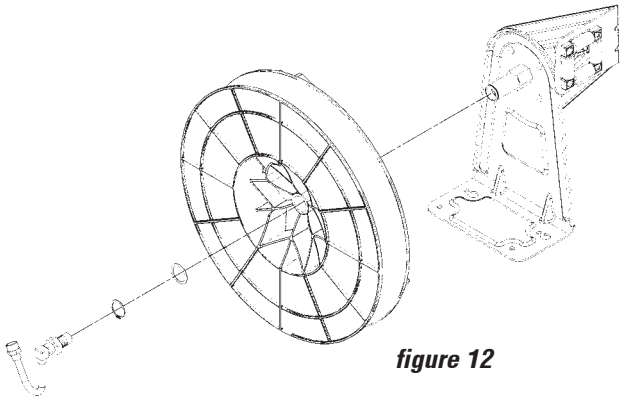
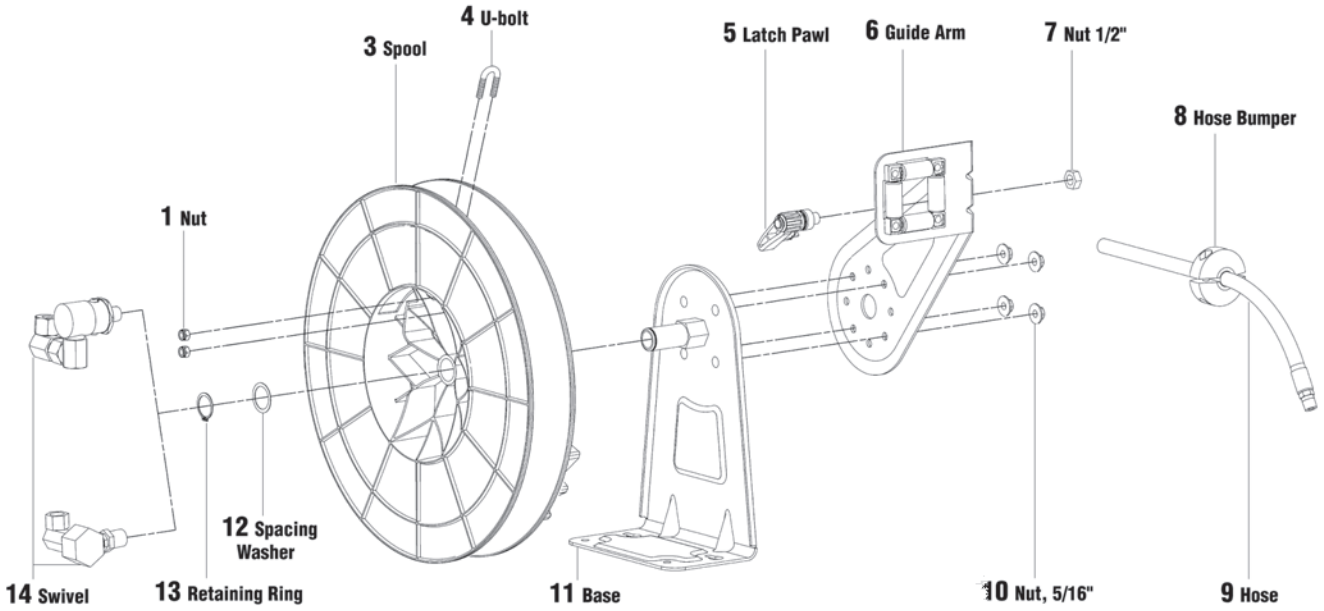
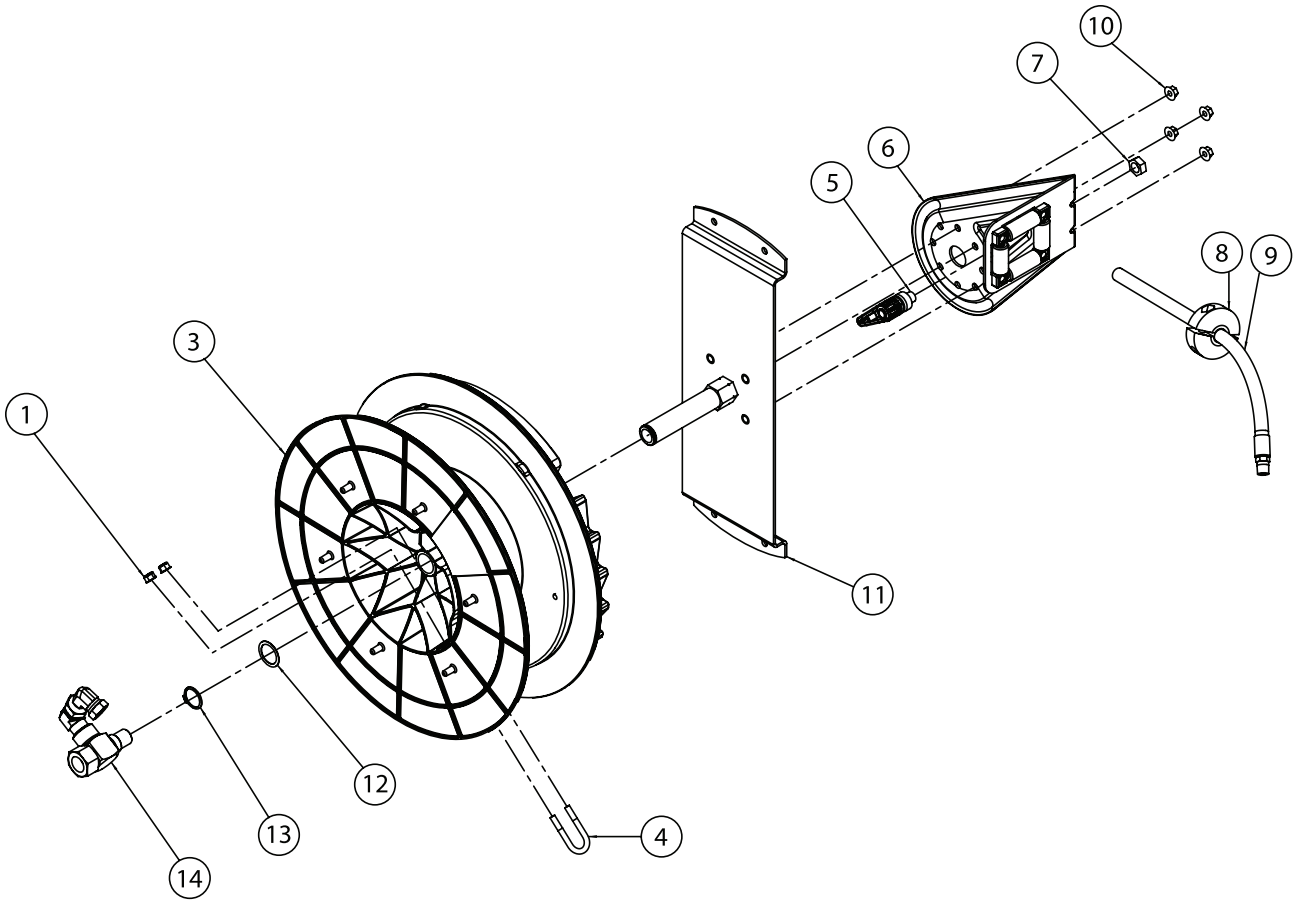


figure 12



Item #	Description	# Req.	RT602-OMP	RT603-OMP	RT605-OMP	RT802-OMP	RT803-OMP	RT625-OMP	RT635-OMP	RT650-OMP	RT825-OMP	RT835-OMP
1	1/4-20 Lock Nut	2	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1
3	Spool Assembly	1	S600878	S600878	602011	S600879	S600879	S600878	S600878	602011	S600879	S600879
4	U-Bolt	1	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440
5	Latch Pawl Assembly	1	S600823	S600823	S600823	S600823	S600823	S600823	S600823	S600823	S600823	S600823
6	Guide Arm Assembly	1	S600825	S600825	602014	S600826	S600826	S600825	S600825	602014	S600826	S600826
7	Nut 1/2"	1	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108
8	Hose Bumper	1	None	None	None	None	None	1-HR1004-3	1-HR1004-3	1-HR1004-3	2-HR1004-3	2-HR1004-3
9	Hose Assembly	1	None	None	None	None	None	12-260043	44-260043	46-260043	21-260043	37-260043
10	Nut 5/16"	4	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2
11	Base Assembly	1	600824	600824	602012	600833	600833	600824	600824	602012	600833	600833
12	Spacing Washer	1	300034	300034	300034	300034	300034	300034	300034	300034	300034	300034
13	Snap Ring	1	300031	300031	300031	300031	300031	300031	300031	300031	300031	300031
14	Swivel Assembly	1	600913	600913	600913	600914	600914	600913	600913	600913	600914	600914
"E" Dimensions - See page 1			5 3/4"	5 3/4"	7 3/4"	6 1/4"	6 1/4"	5 3/4"	5 3/4"	7 3/4"	6 1/4"	6 1/4"

Item #	Description	# Req.	RT402-OHP	RT403-OHP	RT602-OHP	RT603-OHP	RT605-OHP	RT425-OHP	RT435-OHP	RT625-OHP	RT635-OHP	RT650-OHP
1	1/4-20 Lock Nut	2	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1	261650-1
3	Spool Assembly	1	S600878	S600878	S600878	S600879	602011	S600878	S600878	S600878	S600879	602011
4	U-Bolt	1	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440	3-117440
5	Latch Pawl Assembly	1	S600823	S600823	S600823	S600823	S600823	S600823	S600823	S600823	S600823	S600823
6	Guide Arm Assembly	1	S600825	S600825	S600825	S600826	602014	S600825	S600825	S600825	S600826	602014
7	Nut 1/2"	1	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108	S76-108
8	Hose Bumper	1	None	None	None	None	None	1-HR1004	1-HR1004	1-HR2004-3	2-HR1004-3	2-HR1004-3
9	Hose Assembly	1	None	None	None	None	None	10-260044	20-260044	25-260044	24-260044	5-260044
10	Nut 5/16"	4	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2	261650-2
11	Base Assembly	1	600824	600824	600824	600833	602012	600824	600824	600824	600833	602012
12	Spacing Washer	1	300034	300034	300034	300034	300034	300034	300034	300034	300034	300034
13	Snap Ring	1	300031	300031	300031	300031	300031	300031	300031	300031	300031	300031
14	Swivel Assembly	1	S602494	S602494	S602495	S602495	S602495	S602494	S602494	S602495	S602495	S602495
"E" Dimensions - See page 1			5 3/4"	5 3/4"	5 3/4"	6 1/4"	7 3/4"	5 3/4"	5 3/4"	5 3/4"	6 1/4"	7 3/4"



Item #	Description	# Req.	RT650-0MPSM
1	1/4-20 Lock Nut	2	261650-1
3	Spool Assembly	1	S600828
4	U-Bolt	1	3-117440
5	Latch Pawl Assembly	1	S600823
6	Guide Arm Assembly	1	S600826
7	Nut 1/2"	1	S76-108
8	Hose Bumper	1	1-HR1004
9	Hose Assembly	1	S601013-50
10	Nut 5/16"	4	261650-2
11	Shaft / Bracket Assembly	1	600264
12	Spacing Washer	1	300034
13	Snap Ring	1	300031
14	Swivel Assembly	1	602262
"E" Dimensions - See page 1			7 5/16"